```
=> d his

     (FILE 'HOME' ENTERED AT 12:08:03 ON 10 MAY 2004)

     FILE 'REGISTRY' ENTERED AT 12:08:12 ON 10 MAY 2004
                E THIAZOLIDINEDIONE/CN
L1              1 S E3
                E TRIGLITAZONE/CN
                E TROGLITAZONE/CN
L2              1 S E3
                E PIOGLITAZONE/CN
L3              1 S E3

     FILE 'CAPLUS' ENTERED AT 12:23:45 ON 10 MAY 2004
L4           4302 S L1 OR L2 OR L3 OR THIAZOLIDINEDIONE OR THIAZOLEDIONE OR GLITA
L5             30 S L4(L)(PREGNAN? OR UTERINE OR LABOR OR LACTATION OR MILK)
L6              1 S L4(L)OXYTOCIN

     FILE 'CAPLUS, MEDLINE, BIOSIS, EMBASE' ENTERED AT 12:52:29 ON 10 MAY 2004
                E COPLAND J/AU
L7             91 S E3-E4
L8              0 S L7(L)L4
L9              0 S L7(L)( THIAZOLIDINEDIONE OR THIAZOLEDIONE OR GLITAZONE OR U(
                E COPLAND JOHN/AU
L10            64 S E3-E7
L11             0 S L10(L) (THIAZOLIDINEDIONE OR THIAZOLEDIONE OR GLITAZONE OR U(
L12            45 DUP REM L10 (19 DUPLICATES REMOVED)
L13            11 S L12 NOT PY>=1999
L14            10 S L12 NOT PY>=1998
L15             0 S L10(L)(THIAZOLIDINEDIONE OR THIAZOLEDIONE OR GLITAZONE OR U(W
L16         14746 S (THIAZOLIDINEDIONE OR THIAZOLEDIONE OR GLITAZONE OR U(W)(2556
L17             1 S L16(L)OXYTOCIN
L18            94 S L16(L)(PREGNAN? OR UTERINE OR LABOR OR LACTATION OR MILK)
L19             5 S L18 NOT PY>=1999
L20         10113 S LUTEINIZ?(10A)HORMONE(10A)SECRETION
L21       1506847 S (PREGNAN? OR UTERINE(2A)(CRAMP# OR CONTRACT?) OR LABOR OR LAC
L22           257 S L20(S)L21
L23           164 DUP REM L22 (93 DUPLICATES REMOVED)
L24           140 S L23 NOT PY>=1998
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=> s l1 or l2 or l3 or Thiazolidinedione or Thiazoledione or Glitazone or
U(w)(25560 or 72107) or  Noscal or Rezulin or Romglizone or Troglitazone or
Pioglitazone
          1089 L1
          1187 L2
           705 L3
          2439 THIAZOLIDINEDIONE
          1136 THIAZOLIDINEDIONES
          2860 THIAZOLIDINEDIONE
                 (THIAZOLIDINEDIONE OR THIAZOLIDINEDIONES)
            90 THIAZOLEDIONE
             6 THIAZOLEDIONES
            93 THIAZOLEDIONE
                 (THIAZOLEDIONE OR THIAZOLEDIONES)
            44 GLITAZONE
            77 GLITAZONES
           104 GLITAZONE
                 (GLITAZONE OR GLITAZONES)
        354214 U
             8 25560
             4 72107
             6 U(W)(25560 OR 72107)
             3 NOSCAL
            22 REZULIN
             1 ROMGLIZONE
          1374 TROGLITAZONE
           875 PIOGLITAZONE
             1 PIOGLITAZONES
           875 PIOGLITAZONE
                 (PIOGLITAZONE OR PIOGLITAZONES)
L4         4302 L1 OR L2 OR L3 OR THIAZOLIDINEDIONE OR THIAZOLEDIONE OR GLITAZON
                E OR U(W)(25560 OR 72107) OR  NOSCAL OR REZULIN OR ROMGLIZONE
                OR TROGLITAZONE OR  PIOGLITAZONE

=> s l4(l)(pregnan? or uterine or labor or LACTATION or milk)
        113443 PREGNAN?
         29320 UTERINE
             4 UTERINES
         29323 UTERINE
                 (UTERINE OR UTERINES)
         16030 LABOR
           108 LABORS
         16082 LABOR
                 (LABOR OR LABORS)
         24469 LACTATION
           496 LACTATIONS
         24555 LACTATION
                 (LACTATION OR LACTATIONS)
        134032 MILK
          4609 MILKS
        134257 MILK
                 (MILK OR MILKS)
L5          30 L4(L)(PREGNAN? OR UTERINE OR LABOR OR LACTATION OR MILK)
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=> d his

     (FILE 'HOME' ENTERED AT 16:41:59 ON 10 MAY 2004)

     FILE 'CAPLUS, MEDLINE, BIOSIS, EMBASE' ENTERED AT 16:42:07 ON 10 MAY 2004
L1       763992 S DIABET? OR INSULIN(4A)RESIST?
L2           39 S L1(L)(OXYTOCIN(3A)RECEPTOR#)
L3           24 S L2 NOT PY>=1999
L4           20 S L2 NOT PY>=1998
L5           13 DUP REM L4 (7 DUPLICATES REMOVED)

=>
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L5 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1983:11828 CAPLUS
DOCUMENT NUMBER: 98:11828
TITLE: Oxytocin action in isolated adipocytes from Brattleboro rats
AUTHOR(S): Goren, H. Joseph; Hanif, Khawar; Hollenberg, Morley D.; Lederis, Karl
CORPORATE SOURCE: Dep. Med. Biochem., Univ. Calgary, Calgary, AB, T2N 4N1, Can.
SOURCE: Annals of the New York Academy of Sciences (1982), 394(Brattleboro Rat), 625-9
CODEN: ANYAA9; ISSN: 0077-8923
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Epididymal adipocytes of homozygous **diabetes** insipidus (DI) are defective in coupling of **oxytocin** [50-56-6]-**receptor** occupancy in the initiation of a response. Evidently, in DI rats insulin [9004-10-8] and oxytocin both elicit 2nd messengers after binding to their own receptors and these 2nd messengers are probably not the same for the 2 hormones. The 2 hormones affect glucose [50-99-7] metabolism but probably at different biochem. points. The 2nd messenger for **oxytocin-receptor** occupancy is probably mediated in DI rat adipocytes but is not recognized by some of the cell's enzymes. The excess of oxytocin or the vasopressin [11000-17-2] deficiency is not a cause of oxytocin resistance.

L5 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:528782 CAPLUS
DOCUMENT NUMBER: 122:256421
TITLE: Use of thiazolidinediones and related antihyperglycemic agents in the treatment of disease states at risk for progressing to noninsulin-dependent diabetes mellitus
INVENTOR(S): Antonnuci, Tammy; Lockwood, Dean; Norris, Rebecca
PATENT ASSIGNEE(S): Warner-Lambert Co., USA
SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

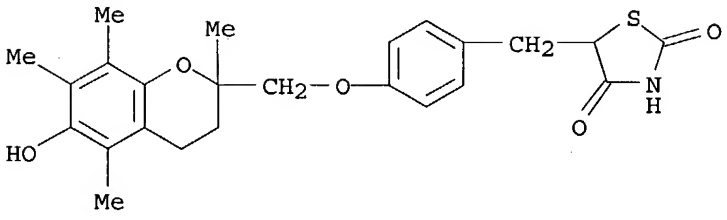
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9507697	A2	19950323	WO 1994-US10187	19940909
WO 9507697	A3	19950511		
W: AU, CA, CN, CZ, FI, HU, JP, KR, NO, NZ, RU, SK				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5457109	A	19951010	US 1994-292585	19940823
US 5478852	A	19951226	US 1994-293899	19940823
US 5478852	C1	20010313		
AU 9477249	A1	19950403	AU 1994-77249	19940909
AU 678291	B2	19970522		
EP 719143	A1	19960703	EP 1994-928068	19940909
EP 719143	B1	20001213		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 09502722	T2	19970318	JP 1994-509270	19940909
AT 198045	E	20001215	AT 1994-928068	19940909
NO 9601052	A	19960314	NO 1996-1052	19960314
AU 9952576	A1	19991202	AU 1999-52576	19991001
AU 749416	B2	20020627		
GR 3035430	T3	20010531	GR 2001-400261	20010216

PRIORITY APPLN. INFO.: US 1993-122251 A 19930915
US 1994-292585 A 19940823
US 1994-293899 19940823
WO 1994-US10187 W 19940909
AU 1997-17709 A3 19970403
OTHER SOURCE(S): MARPAT 122:256421
IT **Pregnancy**
(disorder, gestational diabetes mellitus, **thiazolidinediones** and related antihyperglycemic agents for treatment of polycystic ovary syndrome or gestational diabetes)

=>

L5 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1982:136378 CAPLUS
DOCUMENT NUMBER: 96:136378
TITLE: Uterine sensitivity to oxytocin in rats with diabetes insipidus
AUTHOR(S): Young, T. K.; Hsieh, L. A.; Yang, J. M.; Tsai, H. J.
CORPORATE SOURCE: Dep. Physiol. Biophys., Natl. Def. Med. Cent., Taipei, Taiwan
SOURCE: Kexue Fazhan Yuekan (1982), 10(1), 63-6
CODEN: KHFKDF; ISSN: 0250-1651
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB Rats with **diabetes** insipidus (DI) produced by hypothalamic lesions are .apprx.2-fold more sensitive than normal rats to the uterotonic action of oxytocin [50-56-6] at doses of 0.8-2.0 milliunits. Since the uterus weight and the maximal active tension responses to oxytocin in DI rats are not different from those in normal rats, the supersensitivity to oxytocin in DI rats probably results from increases in the concentration of **oxytocin receptors** rather than from an alteration of intracellular contractile changes.

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 97322-87-7 REGISTRY



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

CN 2,4-Thiazolidinedione, 5-[[4-[(3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl-2H-1-benzopyran-2-yl)methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN CI 991
CN CS 045
CN GR 92132X
CN Noscal
CN Rezulin
CN ~~Romglitizone~~
CN **Troglitazone**

```
=> s e3
L1             1 THIAZOLIDINEDIONE/CN

=> d rn str cn

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   2295-31-0  REGISTRY
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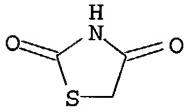


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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

CN   2,4-Thiazolidinedione (8CI, 9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   2-Thiazolin-4-one, 2-hydroxy- (7CI)
CN   Thiazolidinedione (6CI)
OTHER NAMES:
CN   2,4(3H,5H)-Thiazoledione
CN   2,4-Dioxothiazolidine
CN   Glitazone
CN   NSC 6745
CN   U 25560
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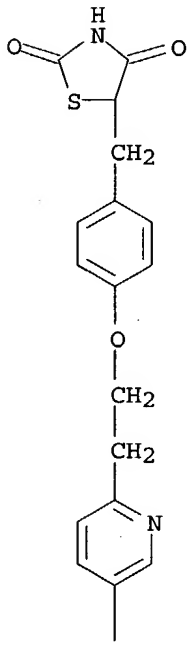
L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 111025-46-8 REGISTRY

PAGE 1-A



PAGE 2-A

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

CN 2,4-Thiazolidinedione, 5-[[4-[2-(5-ethyl-2-pyridinyl)ethoxy]phenyl]methyl]-
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4-Thiazolidinedione, 5-[[4-[2-(5-ethyl-2-pyridinyl)ethoxy]phenyl]methyl]-
, (±)-
OTHER NAMES:
CN **Pioglitazone**
CN U 72107

L5 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4

ACCESSION NUMBER: 1983:210333 CAPLUS
DOCUMENT NUMBER: 98:210333
TITLE: Oxytocin action. Mechanisms for insulin-like activity in isolated rat adipocytes
AUTHOR(S): Hanif, K.; Goren, H. J.; Hollenberg, M. D.; Lederis, K.
CORPORATE SOURCE: Fac. Med., Univ. Calgary, Calgary, AB, T2N 4N1, Can.
SOURCE: Molecular Pharmacology (1982), 22(2), 381-8
CODEN: MOPMA3; ISSN: 0026-895X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In isolated rat adipocytes the effects of oxytocin [50-56-6] on glucose [50-99-7] transport, glucose oxidation, and lipogenesis were examined and compared with the actions of insulin [9004-10-8]. For oxytocin and its analogs, dose-response curves for the stimulation of glucose oxidation reveal an order of potency: oxytocin > mesotocin [362-39-0] > isotocin [550-21-0] > vasotocin [9034-50-8] > oxypressin [642-35-3] .simeq. arginine vasopressin [113-79-1]. Some of the oxytocin analogs are partial agonists (mesotocin, isotocin, arginine vasopressin); tocinamide and pressinamide are inactive. This order of potency closely parallels the order observed for **oxytocin receptors** in other tissues and is distinct from that expected for a vasopressin receptor. The ED50 for oxytocin-mediated stimulation of both glucose oxidation and lipogenesis is .apprx.3 nM. Unlike insulin, oxytocin, at concns. that maximally stimulate glucose oxidation, is unable to stimulate glucose transport. In the presence of a maximally effective concentration of oxytocin (100 nM), the dose-response curve for insulin-stimulated glucose oxidation and lipogenesis is shifted to the right, whereas the effect of insulin on the transport of 3-O-methyl-D-glucose [146-72-5] is unaffected. Thus, oxytocin confers a state of **insulin resistance** on the adipocyte, probably acting at a post-receptor site. Apparently, in the adipocyte, oxytocin acts via the same receptor as is present in uterine and breast smooth muscle and the metabolic actions ~~of oxytocin are~~ due to mechanisms in common (chemical mediators, phosphorylation-dephosphorylation reactions) with the ones involved in the action of insulin.